



Please type a plus sign (+) inside this box →

#2CJR
RECEIPT
M. Brandon
+ 1/23/02

Approved for use through 10/31/2002. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

| | | | |
|--|---|------------------------|--------------------|
| | | Application | 09/940,109 |
| | | Filing Date | August 27, 2001 |
| | | First Named | ECHOLS, Stanley D. |
| | | Group Art Unit | 2878 |
| | | Examiner Name | na |
| Total Number of Pages in This Submission | 5 | Attorney Docket Number | 8257-29 |

| ENCLOSURES (check all that apply) | | |
|--|---|--|
| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Assignment Papers (for an Application) | <input type="checkbox"/> After Allowance Communication to Group |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment / Response | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Petition to Convert a Provisional Application | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Terminal Disclaimer | |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Request for Refund | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> CD, Number of CD(s) _____ | |
| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application | | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |
| Remarks | | |
| <input type="checkbox"/> Req. for Correction of Filing Rept. <input type="checkbox"/> Copy of Filing Rept <input type="checkbox"/> Exhibits A, B <input type="checkbox"/> Postal Receipt Card | | |
| TC 2800 MAIL ROOM | | |
| RECEIVED JAN 15 2002 | | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | |
|-------------------------|---|
| Firm or Individual name | Christopher A. Holland, Reg. No. 46,316 |
| Signature | |
| Date | November 5, 2001 |

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this date:

November 5, 2001

| | |
|-----------------------|------------------|
| Typed or printed name | Paula J. Kustos |
| Signature | |
| Date | November 5, 2001 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Stanley D. Echols and)
Ronald Rahn) Examiner: na
No.: 09/940,109) Art Unit: 2878
Filed: August 27, 2001)
Entitled: Method and Apparatus for)
UV Measurement)

Commissioner for Patents
Office of Initial Patent Examination
Customer Service Center
Washington, D.C. 20231

Burr & Forman LLP
Post Office Box 830719
Birmingham, Alabama 35283-0719
November 5, 2001

TC 2880 MAIL ROOM

RECEIVED
JAN 16 2002

Request for Correction of Filing Receipt

Attached is a copy of the Filing Receipt we recently received for Patent Application No. 09/940,109. Applicant wishes to correct the "Domestic Priority data as claimed by Applicant" by clarifying that the priority document as identified in the nonprovisional patent application is provisional Application No. 60/228,619. Applicant submits herewith the first page of the present nonprovisional application (Exhibit A) as well as a copy of the provisional application filing receipt (Exhibit B) to clarify that the proper serial number.

As a result, the corrected data should be consistent with PTO records.

Respectfully submitted,

Christopher A. Holland
Registration No. 46,316
205-458-5445



JAN 09 2002
PATENT & TRADEMARK OFFICE
UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|----------------|----------|------------|------------|
| 09/940,109 | 08/27/2001 | 2878 | 355 | 8257/29 | 4 | 10 | 2 |

CONFIRMATION NO. 4289

FILING RECEIPT

Robert J. Veal
BURR & FORMAN LLP
Post Office Box 830719
Birmingham, AL 35283-0719



OC000000006887539

Date Mailed: 10/11/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Stanley D. Echols, Birmingham, AL;
Ronald Rahn, Birmingham, AL;

Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/288,619 05/04/2001 *

(*) Data inconsistent with PTO records.

Foreign Applications

If Required, Foreign Filing License Granted 10/08/2001

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

** SMALL ENTITY **

Title

Method and apparatus for UV measurement

Preliminary Class

RECEIVED
JAN 16 2002
TC 2800 MAIL ROOM



METHOD AND APPARATUS FOR UV MEASUREMENT

This Application Claims Priority from Provisional Patent Application 60/228,619
5 Filed August 28, 2000

FIELD OF THE INVENTION

10 [0001] The present invention relates to a method and apparatus for measuring germicidal (254 nm) ultraviolet radiation (GUVR) in an omnidirectional manner. More particularly the invention relates to those situations in which GUVR from more than one direction or source impinges on a three-dimensional object, and when it is of interest to determine the radiant fluence experienced by the object. In greater particularity the present invention employs 15 spherical UV transmissive vessels constructed of varying outside diameter and filled with an actinometric solution. More particularly, the present invention relates to the use of spherical actinometers which may be read *in situ* or in a lab environment.

BACKGROUND OF THE INVENTION

20 [0002] Upper room germicidal (254 nm) UV radiation (GUVR) air disinfection is becoming more widely used for the control of infectious diseases caused by airborne microorganisms such as tuberculosis. Ultraviolet air disinfection has been proposed for use in healthcare facilities and where persons with unrecognized active disease may be present. 25 Although epidemiological studies have shown that UV air disinfection can reduce disease transmission, measurements of UV air disinfection in real-life settings are limited. Low-pressure mercury-vapor lamps used for germicidal application emit approximately 85% of their radiant flux at 254 nm, which is part of the UVC spectrum. The optimal wavelength for air disinfection ranges from 250 to 270 nm, depending upon the microorganism. These lamps are placed near 30 the ceiling and arranged 5-10 feet apart such that the upper room volume is subjected to the

RECEIVED
JAN 16 2000
TC 2800 MAIL ROOM

R&V



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20231
www.uspto.gov

| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|----------------|----------|------------|------------|
| 60/228,619 | 08/28/2000 | 150 | | 61169/01 | | 2 | |

Robert J. Veal
 Burr & Forman LLP
 Post Office Box 830719
 Birmingham, AL 35283-0719

FILING RECEIPT



OC000000005553875

Date Mailed: 11/14/2000

Receipt is acknowledged of this provisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

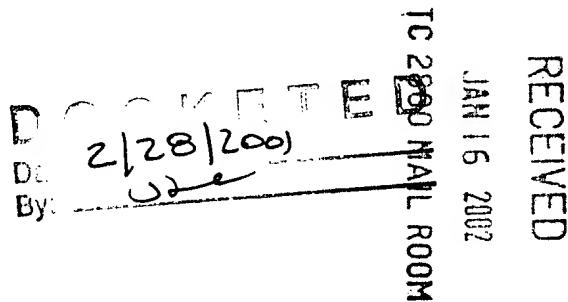
Applicant(s)

Richard Echols, Birmingham, AL ;
 Ronald Rahn, Birmingham, AL ;

Continuing Data as Claimed by Applicant

Foreign Applications

If Required, Foreign Filing License Granted 11/14/2000



Title

Method and apparatus for measuring uv fluence

Preliminary Class

Data entry by : SELLMAN, ADRIENE

Team : OIPE

Date: 11/14/2000



Exhibit B